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10/737,373	12/16/2003	Glenn Gearhart	ACA1.PAU.03	6381
	7590 03/16/2007 ES ANDRAS & SHER	EXAMINER		
19900 MACAR	THUR BLVD.,	SCHMIDT, KARI L		
SUITE 1150 IRVINE, CA 92612			ART UNIT	PAPER NUMBER
			2139	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
	10/737,373	GEARHART, GLENN
Office Action Summary	Examiner	Art Unit
	Kari L. Schmidt	2139
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  (6(a). In no event, however, may a reply be time  (ii) apply and will expire SIX (6) MONTHS from cause the application to become AB ANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 16 De	ecember 2003.	
·— ·	action is non-final.	
3) Since this application is in condition for allowar	ice except for formal matters, pro	secution as to the merits is
closed in accordance with the practice under E		
Disposition of Claims		
4) Claim(s) <u>1-4</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdraw	vn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-4</u> is/are rejected.		
7) Claim(s) is/are objected to.	•	
8) Claim(s) are subject to restriction and/or	election requirement.	
Application Papers	·	
	_	•
9) The specification is objected to by the Examine		and to by the Evaminer
10) ☑ The drawing(s) filed on 16 December 2003 is/a		
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the correct  11) The oath or declaration is objected to by the Ex		
11) I The path of declaration is objected to by the Ex	ammer. Note the attached Office	Action of form P 10-132.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive i (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/16/2003.	4) Interview Summary Paper No(s)/Mail D  5) Notice of Informal F  6) Other:	ate

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#### **DETAILED ACTION**

### Claim Objections

Claim 3 is objected to because of the following informalities: "Wherein the user of the CDCM" should be "Wherein the user of the CDCM system". Appropriate correction is required.

#### Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 1 is rejected under 35 U.S.C. 101 because Claim 1 is directed to "computer program, logic or language, per se." Generally, functional descriptive material, such as a computer program, is statutory when it is stored on a tangible computer readable medium. See MPEP § 2106 IV.B.I (a). However, in the present application, the specification defines does not define "computer readable medium." A computer program listing on a sheet of paper is not considered to provide functionality, and is therefore considered to be merely a computer program per se, which is non-statutory subject matter. Further, "transmission media" such as "communications links" as broadly defined may include non-tangible media such as signals, which are also considered non-statutory. When a claim encompasses both statutory and non-statutory subject matter, the claim as a whole is directed to non-statutory subject matter.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Taylor, "Risk Analysis and Probabilistic Survivability Assessment (RAPSA): An Assessment Approach for Power Substation Hardening".

#### Claim 1

Taylor discloses a Cyber-Security Damage Assessment and Evaluation Measurement (CDAEM) system comprising:

a set of one through "n" functions or sub-functions each which addresses a operational topic, capability or activity which is either required or desired to be performed in the accomplishment of the mission, task or objective of an organization, entity or individual, where the functions and/or sub-functions by analytical representations either simulates or emulates one or more operational topics, capabilities or activities in the context of a cyber-crime attack, cyber-terror attack or other man-made or natural disaster (Section 2 and Section 3);

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one or more input modules or functions that accept user defined actual or desired operational parameters for each function and/or sub-function (page 3, 2<sup>nd</sup> paragraph: "A key survivability concept is the identification of essential services along with essential properties in support of those service. Among the essential properties of interest are integrity, confidentiality, availability, reliability or performance requirements" = actual or desired operational parameters" and Section 3);

one or more input modules or functions that accept user defined sensitivity study parameters for various functions and/or sub-functions (Section 2: "Survivability: page 3, 2<sup>nd</sup> paragraph: "confidentiality");

one or more analytical models which translate operational topics, capabilities or activities into dollar definitive representations and transcend the incompatibility of mapping an operational environment into a financial model which is related to disaster losses and dollar loss potentials and/or exposures ("RAPSA Process Description: Stage 4" and Section 2: page 4: "Using modeling risks and causal relationships are event and fault trees to analyze...");

one or more output modules or functions which provide definitive dollar representations of direct losses, economic losses and damage claim losses based upon the user defined actual or desired operational parameters for each functions and/or sub-

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functions (Section 1: "economic disruption"; Section 2 and 3).

Claim 2

Taylor discloses wherein the user of the CDAEM system defined in claim 1 has the

capabilities to use the system in a stand alone, single computer or digital device

configuration, or as part of a configuration that includes a network of computers and

digital devices (page 1, Section 1: "a large network or infrastructure system").

Claim 3

Taylor discloses wherein the user of the CDAEM defined in claim 1 has the capabilities

to use the device in a direct user present at the computer or digital device configuration,

or as part of remote access configuration which may include wireline, wireless or other

modes of communications (Table 2 and Table 4 and page 5: "the communication status

information to corporate computers").

Claim 4

Taylor discloses wherein the user of the CDAEM system defined in claim 1 has the

capabilities to use the system in a stand alone, single operations mode, or as part of a

configuration that includes a network or grouping of CDAEM type of systems (Section 4:

"standalone risk assessment for cyber system security") or other systems methods or

apparatuses which use modules or function to represent or to addresses a operational

topic, capability or activity which is either required or desired to be performed in the

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accomplishment of the mission, task or objective of an organization, entity or individual (Section 1-3: "Survivability System Analysis (SSA) focuses on organization's mission to withstand attacks..").

## **Double Patenting**

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-4 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-4 of copending Application No. 10/737503. Although the conflicting claims are not identical, they are not patentably distinct from each other because:

Application 10/737503	Instant Application 10/737373
Claim 1:	Claim 1:

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A Cyber-Security Damage Assessment A Cyber-Security Vulnerability Detection and Compliance Measurement (CDCM) and Evaluation Measurement (CDAEM) system comprising: system comprising: a set of one through "n" functions or suba set of one through "n" functions or subfunctions each which addresses a functions each which addresses a operational topic, capability or activity operational topic, capability or activity which is either required or desired to be which is either required or desired to be performed in the accomplishment of the performed in the accomplishment of the mission, task or objective of an mission, task or objective of an organization, entity or individual, where the organization, entity or individual, where the functions and/or sub-functions by functions and/or sub-functions by analytical representations either simulates analytical representations either simulates or emulates one or more operational or emulates one or more, or a group of, operational topics, capabilities or activities topics, capabilities or activities in the context of a cyber-crime attack, cyberin the context of a cyber-crime attack, terror attack or other man-made or natural cyber-terror attack or other man-made or disaster; natural disaster; one or more input modules or functions one or more input modules or functions that accept user defined actual or desired that accept user defined actual or desired operational parameters for each function operational parameters for each function and/or sub-function; and/or sub-function;

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one or more input modules or functions that accept user defined sensitivity study parameters for various functions and/or sub-functions;

one or more input modules or functions that accept user defined sensitivity study parameters for various functions and/or sub-functions:

one or more analytical models which translate operational topics, capabilities or activities into dollar definitive representations and transcend the incompatibility of mapping an operational environment into a financial model, a performance model, a compliance model, and related system measurement model configurations which are required to provide measurement results which are representative of, and definitive of, the system and entity, organization or individual which is being measured;

one or more analytical models which translate operational topics, capabilities or activities into dollar definitive representations and transcend the incompatibility of mapping an operational environment into a financial model which is related to disaster losses and dollar loss potentials and/or exposures;

one or more output modules or functions which provide definitive representations of performance and compliance of the

one or more output modules or functions
which provide definitive dollar
representations of direct losses, economic

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system and entity, organization or losses and damage claim losses based upon the user defined actual or desired individual based upon the user defined operational parameters for each functions actual or desired operational parameters and/or sub-functions. for each functions and/or sub-functions as against a defined standard or as a raw non-standardized value; one or more output modules or functions which provide definitive representations of the vulnerabilities and weaknesses which were observed in the system and entity, organization or individual based upon the user defined actual or desired operational parameters for each functions and/or subfunctions; one or more output modules or functions

which provide the capabilities to report and to archive the definitive and/or parametric results of the various measurements and definitive results provided by these models and processing activities; and

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one or more output modules or functions
which provide definitive representations of
the intermediate and local function and/or
sub-function performance parameters and
the ability to report and to archive such
values and parameters.

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the teachings of Application 10/737503 by having one or more output modules or functions which provide definitive dollar representations of direct losses, economic losses and damage claim losses based upon the user defined actual or desired operational parameters for each functions and/or sub-functions, which is disclosed in the Instant Application 10/737373. Instead of having multiple intermediate reports for the output modules that is claimed in Application 10/737503, can just have output modules that the user defined as actual or desired operational parameters such as: direct losses, economic losses and damage claim losses which is claimed in Application 10/737503 (everything underlined in the table) in the intermediate reports of the various measurements and definitive results provided by the models (financial, performance, compliance and related system measurement model configurations).

Therefore, claim 1 of Application # 10/737503 contains every element of claim 1 of the instant application and thus anticipate the claim of the instant application. Claim

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of the instant application therefore are not patently distinct from the earlier application (10/737503) claim and as such are unpatentable over obvious-type double patenting. A later application claim is not patentably distinct from an earlier claim if the later claim is anticipated by the earlier claim.

Application 10/737503	Instant Application 10/737373
Claim 2:	Claim 2:
Wherein the user of the CDCM system	Wherein the user of the CDAEM system
defined in claim 1 has the capabilities to	defined in claim 1 has the capabilities to
use the system in a stand alone, single	use the system in a stand alone, single
computer or digital device configuration, or	computer or digital device configuration, or
as part of a configuration that includes a	as part of a configuration that includes a
network of computers and digital devices.	network of computers and digital devices.

Claim 2 of Application # 10/737503 contains every element of claim 2 of the instant application and thus anticipate the claim of the instant application. Claim of the instant application therefore are not patently distinct from the earlier application (10/737503) claim and as such are unpatentable over obvious-type double patenting. A later application claim is not patentably distinct from an earlier claim if the later claim is anticipated by the earlier claim.

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Application 10/737503	Instant Application 10/737373	
Claim 3:	Claim 3:	
Wherein the user of the CDCM defined in	Wherein the user of the CDAEM defined in	
claim 1 has the capabilities to use the	claim 1 has the capabilities to use the	
device in a direct user present at the	device in a direct user present at the	
computer or digital device configuration, or	computer or digital device configuration, or	
as part of remote access configuration	as part of remote access configuration	
which may include wireline, wireless or	which may include wireline, wireless or	
other modes of communications.	other modes of communications.	
	·	

Claim 3 of Application # 10/737503 contains every element of claims 3 of the instant application and thus anticipate the claim of the instant application. Claim of the instant application therefore are not patently distinct from the earlier application (10/737503) claim and as such are unpatentable over obvious-type double patenting. A later application claim is not patentably distinct from an earlier claim if the later claim is anticipated by the earlier claim.

Application 10/737503	Instant Application 10/737373
Claim 4:	Claim 4:
Wherein the user of the CDCM system	Wherein the user of the CDAEM system
defined in claim 1 has the capabilities to	defined in claim 1 has the capabilities to
use the system in a stand alone, single	use the system in a stand alone, single

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operations mode, or as part of a configuration that includes a network or grouping of CDCM type of systems.

operations mode, or as part of a configuration that includes a network or grouping of CDAEM type of systems or other systems methods or apparatuses which use modules or function to represent or to addresses a operational topic, capability or activity which is either required or desired to be performed in the accomplishment of the mission, task or objective of an organization, entity or individual.

Claim 4 of Application # 10/737503 contains every element of claim 4 of the instant application and thus anticipate the claim of the instant application. Claim of the instant application therefore are not patently distinct from the earlier application (10/737503) claim and as such are unpatentable over obvious-type double patenting. A later application claim is not patentably distinct from an earlier claim if the later claim is anticipated by the earlier claim.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Jahn (US 2004/0019803 A1) teaches a software facility for evaluating and reporting security vulnerabilities on a computer network.

Bunker, V et al. (US 2003/0056116 A1) teaches a real-time network security vulnerability assessment tests, possibly complete with recommended security solutions. External vulnerability assessment tests can emulate hacker methodology in a safe way and enable study of a network for security openings, thereby gaining a true view of risk level without affecting customer operations.

Bunker, V et al. (US 2003/0028803 A1) teaches a real-time network security vulnerability assessment tests, possibly complete with recommended security solutions. External vulnerability assessment tests can emulate hacker methodology in a safe way and enable study of a network for security openings, thereby gaining a true view of risk level without affecting customer operations.

Magdych et al. (US 6, 546, 493 B1) teaches a system, method and computer program product are provided for scanning a source of suspicious network communications. A scan that may include a risk assessment scan for identifying vulnerabilities at the source.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kari L. Schmidt whose telephone number is 571-270-1385. The examiner can normally be reached on Monday - Friday: 7:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Summy Examiner

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3/13/07

KS